CLAIMS

[1]   An AV content processing device for outputting at least

a portion of an AV content including a program section and a CM

section, comprising:

5   an acquisition unit for acquiring boundary information

indicative of a boundary between the program section and the CM

section;

a first reception unit for receiving from a user an

instruction for extracting and outputting a predetermined section

10   in the AV content;

a boundary correction unit for selecting, in accordance

with the instruction received by the first reception unit, whether

the boundary is shifted in a direction for the CM section to be

short or long, and correcting a content of the boundary information

15   such that the boundary is shifted in accordance with the selected

direction; and

an output control unit for determining, when the

instruction is received by the first reception unit, the boundary

between the program section and the CM section in accordance with

20   the corrected boundary information, and extracting and outputting

a section indicated by the instruction.

[2]   The AV content processing device according to claim 1,

wherein

25   the first reception unit is operable to receive from

the user a program output instruction for outputting at least a portion of the program section of the AV content and a CM output instruction for outputting at least a portion of the CM section of the AV content,

5   the boundary correction unit corrects the content of the boundary information such that the boundary is shifted in the direction for the CM section to be short when the program output instruction is received by the first reception unit, and corrects the content of the boundary information such that the boundary

10   is shifted in the direction for the CM section to be long when the CM output instruction is received by the first reception unit, and

the output control unit extracts and outputs, when the program output instruction is received by the first reception unit,

15   a section indicated as a program section according to the corrected boundary information, and extracts and outputs, when the CM output section is received by the first reception unit, a section indicated as a CM section according to the corrected boundary information.

20   [3]   The AV content processing device according to claim 2 further comprising a second reception unit for receiving from the user a skip instruction for skipping a portion of the AV content being outputted by the output control unit, wherein,

when the skip instruction is received by the second

25   reception unit during an output of the AV content between a boundary

indicating a start point of a CM section according to the boundary

information not corrected and a boundary indicating a start point

of the CM section according to the boundary information having

been corrected, the output control unit causes the output of the

5   AV content to be skipped to an end point of the CM section according

to the boundary information having been corrected, and, when the

skip instruction is received by the second reception unit during

an output of the AV content between a boundary indicating an end

point of the CM section according to the boundary information not

10   corrected and a boundary indicating the end point of the CM section

according to the boundary information having been corrected, causes

the output of the AV content to be skipped to the end point of

the CM section according to the boundary information not corrected.

15   [4]   The AV content processing device according to claim 1

further comprising a detection unit for calculating a parameter

indicating characteristics of one of a sound and an image in the

AV content and detecting a section for which the parameter satisfies

a predetermined condition as a characteristic section, wherein

20   the reception unit is operable to receive from the user

a characteristics output instruction for extracting and outputting

the characteristic section in the program section,

        the boundary correction unit corrects, when the

characteristics output instruction is received by the first

25   reception unit, the content of the boundary information such that

the boundary is shifted in the direction for the CM section to be long, and

the output control unit extracts and outputs, when the characteristics output instruction is received by the first reception unit, the characteristic section included in a section indicated as a program section according to the corrected boundary information.

[5]   The AV content processing device according to claim 1 further comprising a detection unit for calculating a parameter indicating characteristics of one of a sound and an image in the AV content and detecting a section for which the parameter satisfies a predetermined condition as a characteristic section, wherein

the reception unit is operable to receive from the user a characteristics output instruction for extracting and outputting the characteristic section in the program section,

the boundary correction unit corrects, when the characteristics output instruction is received by the first reception unit, the content of the boundary information such that the boundary is shifted in the direction for the CM section to be short, and

the output control unit extracts and outputs, when the characteristics output instruction is received by the first reception unit, the characteristic section included in a section indicated as a program section according to the corrected boundary

information.

[6]   The AV content processing device according to claim 1, wherein

5   the acquisition unit further acquires CM number information indicating a number of CMs in the CM section and length information indicating a length of the CM section, and

          the boundary correction unit selects an amount of shift performed for a boundary indicating a start point and boundary
10   indicating an end point of the CM section, based on the CM number information and length information for the CM section.

[7]   The AV content processing device according to claim 1, wherein the boundary correction unit selects an amount of shift
15   performed for a boundary indicating a start point and boundary indicating an end point of the CM section, based on a length of a program section immediately before the CM section.

[8]   The AV content processing device according to claim 1,
20   wherein the boundary correction unit selects an amount of shift performed for a boundary indicating a start point and boundary indicating an end point of the CM section, based on a ratio of a length from a start of the AV content to the CM section to a length of the entire AV content.

[9]   The AV content processing device according to claim 1, wherein the boundary correction unit corrects, when a predetermined condition is satisfied for the CM section, the boundary information such that a boundary indicating a start point and boundary

5   indicating an end point of the CM section are erased.

[10]   The AV content processing device according to claim 1 further comprising a program information acquisition unit for acquiring program information which is information concerning a

10   program included in the AV content, wherein

        the boundary correction unit changes an amount of shift performed for the boundary based on the acquired program information.

15   [11]   An AV content processing method for outputting at least a portion of an AV content including a program section and a CM section, comprising:

        an acquisition step of acquiring boundary information indicative of a boundary between the program section and the CM

20   section;

        a first reception step of receiving from a user an instruction for extracting and outputting a predetermined section in the AV content;

        a boundary correction step of selecting, in

25   accordance with a type of the instruction received by the first

reception step, whether the boundary is shifted in a direction for the CM section to be short or long, and correcting a content of the boundary information·such that the boundary is shifted in the selected direction; and

5   an output control step of determining, when the instruction is received by the first reception step, the boundary between the program section and the CM section in accordance with the corrected boundary information, and extracting and outputting a section indicated by the instruction.

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[12]   An AV content processing program executed by a computer of an AV content processing device for outputting at least a portion of an AV content including a program section and a CM section, causing the computer to execute:

15   an acquisition step of acquiring boundary information indicative of a boundary between the program section and the CM section;

a first reception step of receiving from a user an instruction for extracting and outputting a predetermined section
20 in the AV content;

a boundary correction step of selecting, in accordance with a type of the instruction received by the first reception step, whether the boundary is shifted in a direction for the CM section to be short or long, and correcting a content
25 of the boundary information such that the boundary is shifted in

the selected direction; and

an output control step of determining, when the instruction is received by the first reception step, the boundary between the program section and the CM section in accordance with

5   the corrected boundary information, and extracting and outputting a section indicated by the instruction.

[13]   An integrated circuit used in an AV content processing device for outputting at least a portion of an AV content including

10   a program section and a CM section, comprising:

an acquisition section for acquiring boundary information indicative of a boundary between the program section and the CM section; and

a boundary correction section for a user to input

15   an instruction for extracting and outputting a predetermined section in the AV content, for selecting, in accordance with a type of the instruction, whether the boundary is shifted in a direction for the CM section to be short or long, and correcting a content of the boundary information such that the boundary is

20   shifted in the selected direction.